

# PATENT ABSTRACTS OF JAPAN

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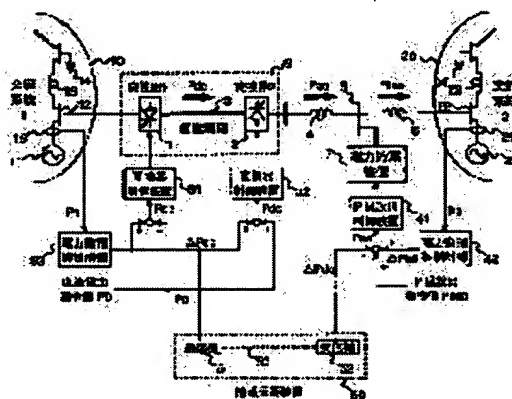
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## (54) POWER SYSTEM STABILIZER OF POWER SYSTEM

### (57)Abstract:

**PROBLEM TO BE SOLVED:** To minimize the influence of a power disturbance upon a power system which has a DC transmission apparatus as the absorbing/discharging means of an AC power and stabilize the power system.

**SOLUTION:** 1st and 2nd power systems 10 and 20 are linked with each other by a DC transmission apparatus 9 and AC transmission lines 4 and 6. The respective power converters of the DC transmission apparatus 9 are controlled by converter controllers 31 and 32 and a DC transmission power  $P_{dc}$  is controlled to be a commanded value. The absorbed/discharged power of a power storage apparatus 7 connected to a bus-bar 5 is controlled by a power absorption/discharge controller 41. The output signal  $\Delta P_{dc}$  of the power disturbance suppression controller 33 of the DC transmission apparatus 9 is obtained through an information transmitter 50. The output signal  $\Delta P_{dc}$  is deducted from an ordinary power absorption/discharge command value  $P_{es0}$  and a power command value  $P_{es}$  supplied to the power absorption/discharge controller 41 is produced to suppress the fluctuation of a power flow which is supplied to the 2nd AC system from the DC transmission apparatus 9.



## LEGAL STATUS

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